

Claims

1. A cultivar of *Phyllanthus amarus* 'CIM-Jeevan', producing high amount of herb, phyllanthin and hypophyllanthin, wherein said cultivar is developed through γ -irradiation of superior germplasm, having following characters:
 - a. the said plant produces high amount of herbage yield ranging between 1.0-1.15 kg per sqm fresh total plant herb,
 - b. the said plant possesses high vegetative erect growth with a height ranging between 60 to 65 cm,
 - c. the said plant has distinct molecular profile established by Random Amplified Polymorphic DNA (RAPD),
 - d. the said plant has leaves with following characteristics,
 - Color: greenish leaves with upper surface (127A) and lower surface (136D),
 - Surface: Smooth,
 - Shape: elliptic oblong to obvate,
 - Margin: ciliate,
 - Tip: obtuse,
 - Base: Obtuse,
 - Petiole length: 0.3-0.7 mm,
 - Length: 6 to 10 mm, and
 - Width: 4 to 5 mm
 - e. the said plant has stem with following characteristics,
 - Terete,
 - Smooth,
 - Green (138C)
 - Young parts are rough
 - f. the said plant has flowers with perianth having the following characters:
 - Lobes 5, sub-equal, elliptic or oblong, Disc 5 roundish
 - Stamens: 3, free, filaments connate in a column, anther sessile
 - Style: 3, spreading, stigma bi-fid, divergent
 - g. the said plant has fruit with the following characters:
 - a. Capsule,
 - b. Obvate-rounded,
 - c. Yellow green group (144 D)

- h. the said plant has seeds with the following characters:
 - a. Triangular,
 - b. longitudinal ribs,
 - c. transverse striate on back,
 - d. weight of 1000-seed: about 1.8g.
- i. the said plant produce phyllanthin ranging between 0.70-0.77% in dry herb ,
- j. the said plant produce hypophyllanthin ranging between 0.32-0.37% in dry herb,
- k. the said plant produce average dry seed per plant of about 4.1 in grams,
- l. the said plant produce average dry leaves per plant of about 5.75 in grams,
- m. the said plant produce average dry biomass per plant of about 11 in grams,
- n. the said plant produce average fresh biomass per plant at harvest of about 55 in grams,
- o. the said plant shows seed germination of about 90%, and
- p. the said plant is an annual herb.